

CLAIMS**What is claimed is:**

1. A topical composition for treatment of nail infections comprising as an active ingredient at least one species selected from the group consisting of 2,2' -(alkyldioxy) bis-(alkyl-1,3,2-dioxaborinane) and 2,2'-oxybis(alkyl-1,3,2-dioxaborinane).
5
2. A topical composition for treatment of nail infections as recited by claim 1, wherein said active ingredient is at least one member selected from the group consisting of 2,2' - (1-methyltrimethylene dioxy) bis - (4-methyl-1, 3, 2-dioxaborinane) and 2,2' - oxybis (4, 4, 6 - trimethyl-1, 3, 2-dioxaborinane).
10
3. A topical composition for treatment of nail infections as recited by claim 1, wherein said active ingredient is 2,2' - (1-methyltrimethylene dioxy) bis - (4-methyl-1, 3, 2-dioxaborinane).
15
4. A topical composition for treatment of nail infections as recited by claim 1, wherein said active ingredient is 2,2' - oxybis (4, 4, 6 - trimethyl-1, 3, 2-dioxaborinane).
- 20 5. A topical composition for treatment of nail infections as recited by claim 1, wherein said composition contains at least one member selected from the group consisting of white mineral oil, petroleum jelly and paraffin wax.

2025 RELEASE UNDER E.O. 14176

6. A topical composition for treatment of nail infections as recited by claim 1,
wherein said composition contains volatile solvent

7. A topical composition for treatment of nail infections as recited by claim 1,
5 wherein said composition contains an organic film former.

8. A topical composition for treatment of nail infections as recited by claim 6,
wherein said organic film former is selected from the group consisting of polymers
and copolymers of vinyl acetate, polymethyl methacrylate, polyvinyl butyral,
10 polyvinyl pyrrolidone, cellulose acetate, and cellulose butyrate.

9. A topical composition for treatment of nail infections as recited by claim 1,
wherein said composition contains a penetration enhancer.

15 10. A topical composition for treatment of nail infections as recited by claim 1,
wherein said penetration enhancer is selected from the group consisting of dimethyl
sulfoxide and N-methyl-2-pyrrolidone.

11. A topical composition for treatment of nail infections as recited by claim 1,
20 wherein the concentration of the active ingredient is at least about 0.1 wt% of the
composition.

12. A topical composition for treatment of nail infections as recited by claim 1,
wherein the active ingredient is between 0.1 wt% and 75 wt% of the composition

13. A topical composition for treatment of nail infections as recited by claim 1,
wherein the active ingredient is between 0.1 wt% and 50 wt% of the composition.

14. A topical composition for treatment of nail infections as recited by Claim 1
5 wherein the active ingredient is between 0.1 wt% and 25 wt% of the composition.

15. A method for the treatment of nail infections comprising: periodically
applying to the infected nail a composition comprising as active ingredient at least
one species selected from the group consisting of 2,2' -(alkyldioxy) bis-(alkyl-1,3,2-
10 dioxaborinane) and 2,2'-oxybis(alkyl-1,3,2-dioxaborinane) for a period sufficient to
end the infection.

16. A method for the treatment of nail infections as recited by Claim 14 wherein
the composition applied comprises as active ingredient at least one member selected
15 from the group consisting of 2,2' - (1-methyltrimethylene dioxy) bis - (4-methyl-1, 3,
2-dioxaborinane) and 2,2' - oxybis (4, 4, 6 - trimethyl-1, 3, 2-dioxaborinane).